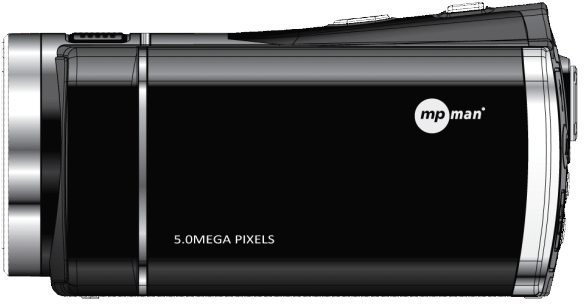
PC25HD



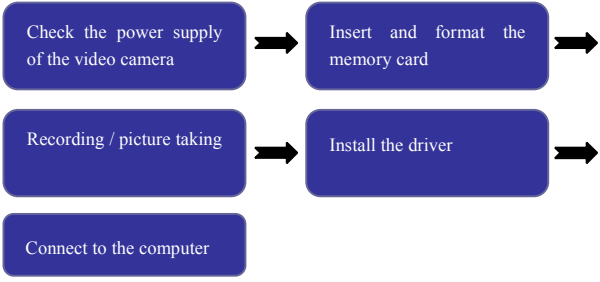
Preface

Thanks for your selection of this digital video camera. The user's manual shall be carefully read and put in a safe place before application for further reference.

The contents covered by this manual refer to the latest information when this manual is compiled. The screen display, illustration and other instructions in this manual are used to more specifically and directly describe the operation of this video camera. Owning to the difference of technical development and production batch, they may be a little different from the digital video camera actually used by you.

Description

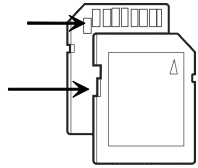
The video camera shall be used according to the following order.


Check the power supply of the video camera
Insert and format the memory card
Recording / picture taking
Install the driver
Connect to the computer

⚠ Note: if it is a newly bought memory card or a card has been used in other digital camera/ video camera is adopted by this camera, it shall be firstly formatted by this video camera. Before formation, the backup of important data shall be made in other media, such as soft disk, hard disk and CD.

Instruction for use

The video camera has no memory, SD memory card and MMC card (multi-media memory card) can be used. SD memory card has writing protection switch which is to prevent delete or formatting of image files.



Push the switch on the SD memory card to the bottom and then the data will be protected. Push the switch on the SD memory card to the top and then the writing protection will be cancelled. Before picture taking, please push the switch on the SD memory card to the top.

Application description of the memory card

- When newly bought memory card is used or the memory card has the data that can not be identified by the video camera or images shot by other video camera, the memory card must be formatted at first.
- The power supply of the video camera shall be cut off before inserting or taking the memory card out.
- The performance of the memory card will be debased after application for several times. If the performance of the memory card is debased, a new one shall be bought.
- The memory card is precise electronic device. It is forbidden to bend, fall down or let the memory card bear heavy pressure.
- It is forbidden to put the memory card in the environment with strong electric field or magnetic field, such as the propinquity of the amplifier or TV receiver.
- It is forbidden to use or put the memory card in the environment that is too hot or too cold.
- The memory card shall be kept clean and liquid is not allowed to touch the card. If the memory card touches liquid, please make it dry by soft dry cloth.
- When the memory card is not used, it shall be put in its case.
- Please notice that the memory card will become hot after long-time application, which is completely normal.
- It is forbidden to use the memory card that is used in other digital video camera or digital camera. The memory card to be used in this camera shall be formatted at first by the video camera.
- It is forbidden to use the memory card that is formatted in other digital video

camera or card reader of a memory card.

- If one of the following situation occurs, the record data may be damaged:
  -The memory card is improperly used.
  -When recording, delete (formatting) or reading, the power supply is cut off or the memory card is taken out.
- It is advised to copy the important data in other media, such as soft disk, hard disk and CD.

Maintenance and care of the video camera

When the video camera is not used, it shall be kept in dry and dark place and the battery must be taken out.

- The wrist sling shall be kept during application to avoid sliding.
- Proper protective case shall be used to prevent damage on camera lens and display If the surface of camera lens is cleaned, the dust on the surface shall be blew away at first and then use cloth or paper suitable for cleaning optical equipment to lightly wipe the camera lens. If necessary, detergent can be used to wipe the camera lens. It is forbidden to use organic solvent to clean the video camera.
- It is forbidden to touch the surface of the camera lens with fingers.

System required

When this digital video camera is operated or used, the lowest system requirement to the computer for the video camera shall be referred. We strongly recommend you to use better computer to operate the video camera to exert the best function of the video camera. The following is the lowest system required:

System required	
Operation system	Microcode Windows 2000, XP, VISTA,Windows 7
Central processing unit	Higher than Intel PIII667 or the CPU with equal performance
Memory	More than 128 MB
Sound card, graphic card	The sound card and graphic card support DirectX8 or higher version
CD-ROM	Higher than 4 quad speed
Hard disk	Remaining space is more than 1 GB
Others	One standard USB 1.1 or USB 2.0 interface

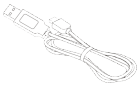
Performance features

The video camera has several features and functions:

- Digital video camera
- Digital camera (five-million pixels)
- Mass Storage (Movable disk)
- PC Camera (camera)
- 8-time digital zoom

Fittings

After opening the package of the video camera, you can see the following main fittings:



USB connective cable

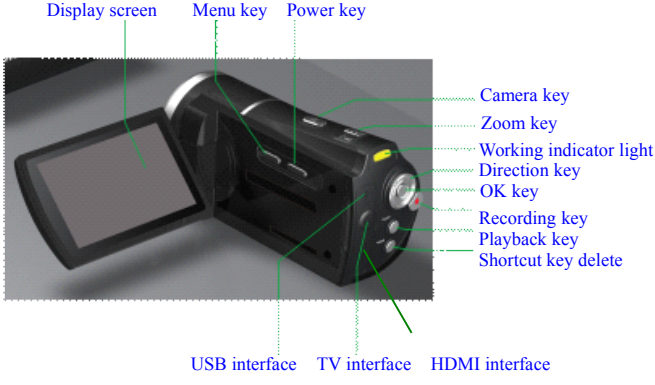
Installation CD

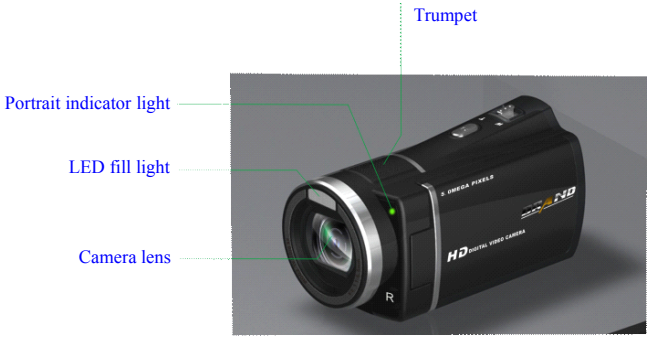
User's manual

TV cable

Li-battery

Brief introduction of the appearance




Trumpet
Portrait indicator light
LED fill light
Camera lens
R

Wrist sling button
Wrist sling
Microphone

Function of keys and indicator lights of the video camera

Key/Indicator light	Function
Power key	Power on and off the camera.
Recording key	Record image.
Camera key	Take photos.
Zoom key	Digital zoom, zoom in/out photo (playback mode).
Menu key	Open/close the menu.
Playback key	Enter/exit playback mode.
Up key	Select menu and move photos (when the photo is enlarged). Pause the play.
Down key	Select menu and move photos (when the photo is enlarged)，close the screen
Left key	Select file and menu, open the fill light and move photos (when the photo is enlarged).
Right key	Select file and menu, move photos (when the photo is enlarged). Camera mode shift.
OK key	Confirm, play and stop the play.
Shortcut key delete key	Enter shortcut key delete state.
Working indicator light	It will shine once when picture taking and will shine constantly when the disk is moved as it is connected with the computer.
Portrait indicator light	The light will shine during count down the process during portrait.

Start to use

Battery installation

The video camera uses four AAA alkaline batteries or original rechargeable lithium battery. Before the battery is replaced, the power supply of the video camera shall be cut off.

Open the battery cover and insert the battery due to the indication of positive and negative poles in battery bin. Then close the battery cover.

SD/MMC memory card installation

Open the battery cover and insert the metal feet of SD/MMC memory card into the groove of memory card according to the indication nearby the card groove. If the memory card needs to be taken out, please press the SD/MMC memory card to take it out.

Note:

- Before replacing the memory card, the power supply of the video camera shall be cut off.
- The card shall be inserted with the correct direction. Proper stress shall be adopted when the card is inserted to prevent damage of the card or parts of video camera. If the card can not be inserted, please check whether the direction is correct.
- When the memory card is used for the first time or has been used in other video camera, it shall be formatted at first.

Open the screen

Open the LED outward to let the LED display screen face toward you.

Open

Press the power supply for two seconds and then release, the video camera will be started.

Mode shift

Under picture taking/recording mode, press the playback key to shift to playback mode from picture taking/recording mode. Under playback mode, press the playback key to exit playback mode.

Recording

Under recording mode, press the recording key to start recording and press the recording key again to stop the recording.

Picture taking

Under picture taking mode, press the camera key to take photos.

Playback

Press the playback key to enter playback mode to browse photos and play the video shot by the camera.

Browsing photos: use left key or right key to select photos and use zoom key to enlarge the photo. After the photo is enlarged, press the up/down/left/right key to move the photo.

Movie play: use left key or right key to select the movie you want to play and press OK key to start the play. Press OK key again to stop the play. During the play process, the play can be paused by pressing the up key and press the up key again to continue the play.

HDMI output

When the image and sound in the camera have to be output to the HDMI TV, please insert the output port of the HDMI wire into the HDMI interface on the camera and connect the HDMI input port to the video input port of the video equipment Note: please stop the recording/sound recording or play before connecting the HDMI or withdrawing the HDMI wire.

TV output

When images and sound in video camera needs to be outputted to TV, insert the public terminal of TV cable into TV interface in the video camera. Yellow port connects with video input port of video equipment and the red/white port connects with audio input port of video equipment. Note: before TV is connected or TV cable is pulled out, the video/sound recording or play shall be stopped.

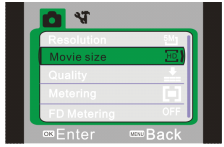
Close

Under start-up state, press the power key for a long time, then the video camera will be closed.

If the video camera stays in unused state and no operation is carried out beyond the set automatic close time (one minute/three minutes/five minutes), the video camera will be automatically closed to save power.

Menu setting

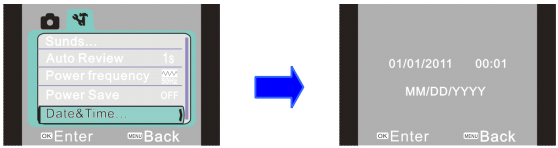
Under picture taking/recording and playback mode, press the menu key to open the menu and then press the up/down/left/right key to select menu. Press OK key to enter the submenu. When selecting menu, the background of the selected menu option will be displayed with high brightness.



▲ Recording/picture taking menu

Date and time setting

Press the menu key to open the menu and then press the left and right key to enter setting menu. Press the down key to select “date and time” menu option and press OK key to enter setting window.



In setting window, press the left and right key to select the item to be adjusted (date and time), then the background of the selected item will be displayed in blue. Then press the up key or down key make adjustment. After adjustment is completed, press the confirmation key for confirmation or press the menu key to cancel the setting and exit. Finally press the menu key to exit the setting mode.

Connect to the computer

Before the computer is connected, the driver of the video camera shall be installed with installation CD.

Firstly, connect the power supply of the video camera and then use USB connective cable in the fittings to connect with the usable USB port of the computer. USB mode is movable hard disk or PC camera. The video camera will automatically enter movable disk mode and it is possible to enter PC camera by pressing the playback key.

Picture taking/recording mode

The camera will automatically enter picture taking/recording mode after it is started.

Press the shutter key to directly take photos.

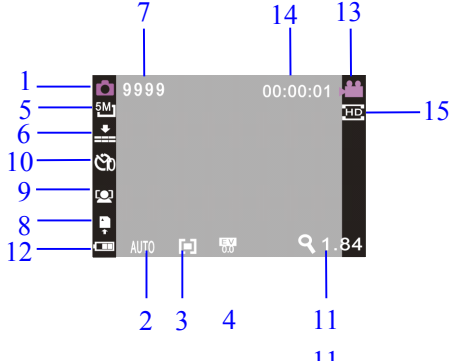
Press the recording key to start shoot and press the recording key again to stop shooting.

Press T key or W key to achieve digital zoom.

Press the left key to open or close LED fill light (the fill light can not be used under playback mode).

When the video camera is in idle state, press the down key to shift among the three screen display states, namely, close icon, close screen and normal display.

◆ Information displayed on the screen under picture taking/recording mode



Serial NO.	Icon name	Description
1	Picture taking mode	Indicate that under picture taking mode, picture taking can be carried out by pressing shutter key
2	White balance	Indicate the current white balance setting

3	Photometry mode	Indicate current photometry mode
4	Exposure	Indicate current selected exposure value
5	Image Dimension	Indicate current dimension of Resolution of photo
6	Image quality	Indicate current selected image quality
7	Possible number of photos	Indicate the remaining number of photos
8	SD card	Indicate inserting memory card and that the SD card that is used has wiring protection
9	Face detection	Open face detection
10	Count down of portrait	Indication of count down during portrait
11	Focus indication	Indicate current digital zoom time
12	Quantity of electricity	Indicate current battery state. When red is displayed, it means that the battery is used up and the video camera will automatically close
13	Recording mode	Indicate that under recording mode, press the recording key to carry out recording
14	Recording time	Idle time means remaining feasible recording time; record time means the recorded time
15	Video format	Indicate the resolution of current video

◆ Menu setting

Press the menu key to open the main menu of recording/picture taking and press the left and right key to select the menu. Press OK key to enter the submenu. In the submenu, press the menu key or OK key to return to the main menu and press the left and right key to make selection and finally press OK key for confirmation. After returning to the main menu, press the menu key to exit the menu.

During menu selection, the selected menu will be covered and displayed by blue and

bright striation.

Recording menu option:

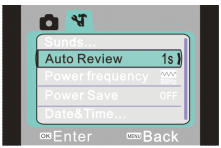
Main menu	Submenu	Description
Resolution	4032x 3000	12-million pixels Resolution
	3264 x2448	8–million pixels Resolution
	2592x1944	5-million pixels Resolution
	2048X1536	3-million pixels Resolution
Video	1280x720	Format with high Resolution
	640X480	Format with medium Resolution
Image quality	Excellent	Best image quality
	Good	Good image quality
	Normal	Common image quality
Photometry mode	Central photometry	The photometry depends on the central area
	Multi-spot photometry	The photometry depends on multi-spot
	Spot photometry	The photometry depends on one spot
FD Photometry	on	Open FD Photometry, optimize face automatically
	off	Close FD Photometry automatically
White balance	Auto	Use automatic white balance, suitable for most situations
	Sunlight	Suitable for sunlight environment
	Cloudy	Suitable for cloudy environment
	Fluorescent	Suitable for light source environment of fluorescent lamp

	Filament	Suitable for light source environment of filament lamp
Exposure	/	Use left and right key to adjust exposure compensation
Recording mode	Close	Use common mode of taking single picture
	2s	Use portrait mode with 2 s delay
	10s	Use portrait mode with 10 s delay
	Successive picture taking	Successively taking photos
Special effect	Normal	Normal effect
	B&W	Black and white effect
	Retro	Memorable effect
	Negative	Negative effect
	Red	Reddish effect
	Green	Greenish effect
	Blue	Bluish effect
Date Stamp	Off	The date/time won't print on file
	Date	When Recording/picture taking,date will be printed
	Date&time	Recording/picture taking,date /time will be printed
Face detect	On	Indicate on the screen
	Off	Close face detect
Smile Capture	On	Capture the smile, taking picture automatically
	Off	Close smile capture
Blink detect	On	Detect the blink, taking picture will stop automatically

	Off	Close blink detect

Setting menu

No matter under recording mode or picture taking/recording or playback mode, after the menu is opened by pressing the menu key, press the left and right key to enter setting the main menu. Then press the up, down, left and right key to select menu and press OK key to enter the submenu. In the submenu, press the menu key or OK key to return to the main menu and press the up key or down key to select and finally press OK key for confirmation. After returning to the main menu, it is possible to press the menu key to exit from the menu.



▲ Setting menu

▲

During menu selection, the selected menu will be displayed in high brightness.

Main menu	Submenu	Description
Sound	Shutter	Open/close
	Open sound	No/1/2/3
	Key sound	Open/close
	Volume	0/1/2/3
Auto Review	Off	No playback after picture taking
	1 second	Playback for 1 second after picture taking
	3 seconds	Playback for 3 seconds after picture taking

Power Frequency	50 Hz	Set the frequency of light source as 50 Hz
	60 Hz	Set the frequency of light source as 60 Hz
Power Save	1 minute	Automatic close under 1 minute of idle state
	3 minutes	Automatic close under 3 minutes of idle state
	5 minutes	Automatic close under 5 minutes of idle state
	Off	Cancel the automatic close
Date and time	/	Set date and time and format of the date
Language	English	Menu language is set as English
	French	Menu language is set as French
	German	Menu language is set as German
	Italian	Menu language is set as Italian
	Dotch	Menu language is set as Dotch
	Spanish	Menu language is set as Spanish
	Portuguese	Menu language is set as Portuguese
TV out	NTSC	The TV model is set as NTSC
	PAL	The TV model is set as PAL
Format.	Yes/no	Format memory card
Reset All	Yes/no	Restore factory setting

When date and time is set, use left key to shift the item that is to be set and press the up key or down key to make the adjustment. Press OK key for confirmation and press the menu key to cancel the setting and return to the main menu.

Picture taking/recording mode

The camera will automatically enter picture taking/recording mode after it is started.
Press the camera key to start picture taking and press the recording key to start and stop

the recording.
Press T key or W key to achieve digital zoom.
The 10s delayed portrait can be realized after pressing the right key of the shortcut key.
Portrait mode: press the camera key to start count down and the photo will be taken after 2 s or 10 s.
Application of LED fill light: press the left light key to open or close the fill light. (The fill light can not be used after entering playback mode.)
When the video camera is in idle state, press down key to shift among three screen displays, including close icon, close screen and normal display.

Note:
- During recording, the video camera shall be kept steadily and you'd better put it on supports such as tripod to get clear photos.
- After pressing the shutter key for picture taking, the BUSY light will shine. At this moment, the video camera can not be moved. After BUSY light is off, the video camera can be moved to prevent the situation that the photos are blurring.

◆ Menu setting

Press the menu key to open picture taking/recording main menu and press the down key or up key to select menu and then press OK to enter the submenu. In the submenu, press the menu key or left key to return to the main menu and press the down key or up key to select and then press OK key for confirmation. After returning to the main menu, it is possible to exit from the menu by pressing the menu key.
During menu selection, the background of selected menu will be displayed in blue..
Picture taking menu option:
Note: when adjusting exposure compensation in exposure submenu, use the left and right key to adjust the exposure compensation value and the image brightness on the screen will change accordingly. After the setting is finished, press OK key for confirmation and return to the main menu. Then press the menu key to cancel the setting.
Setting menu
The operation method is the same with the method under picture taking/recording mode.

Playback mode

Use the playback key to enter playback mode.

Under playback mode, press the left key to select previous file or press the right key to select next file.

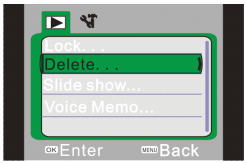
When recording is selected, press OK key to start the play, meanwhile, the play timekeeper will appear on the right upper corner on the screen. During the play process, press the up key to pause the play. After the play pauses, the play can continue by pressing recording key and the play will be stopped by pressing Menu key.

When photo is selected, press T key to enlarge the photo and press OK key for confirmation and then use up and down key to move the photo.

Setting playback menu

Press the menu key to open playback main menu and press the up key or down key to select the menu. Then press OK key to enter the submenu. In the submenu, press the menu key or OK key to return to the main menu. Then press the up key or down key to select and press OK key for confirmation. After returning to the main menu, it is possible to exit from the menu by pressing the menu key.

When selecting menus, the selected menu is highlighted.



▲playback menu

Picture menu options:

Main menu	Submenu	Description
File lock	Lock/unlock the file	Lock/unlock current file
	Lock all	Lock all files
	Unlock all	Unlock all files
File deleting	Delete the file	Delete current file
	Delete all	Delete all files
Slide play	Start	Start slide play
	Interval	1 s ~10 s

Sound memo	Circulation	Yes/no
	add	Add the sound memo on picture
	Delete	Delete sound memo on picture

Attention: each picture can add sound memo at most 30senconds. On playback mode to add sound memo, the picture will show press OK key to start play sound memo, you can press UP key or Menu key to stop it,

Download photo/video by connecting with the computer

After the video camera is connected with the computer, and enters movable disk mode, there will be a new movable disk displayed in "my computer" window and the photos or videos are saved in the directory of "DCIM\100MEDIA" in the movable disk. After entering this directory, the files can be copied to your hard disk in the computer.

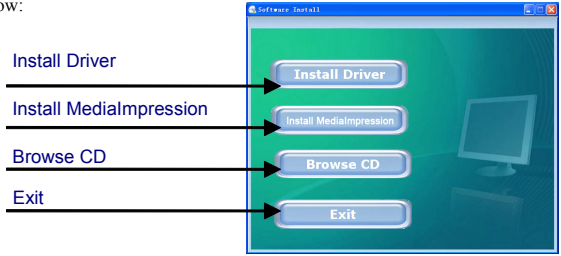
Note: during download process, the USB connection can not be disconnected. When USB is connected, the memory card can not be pulled out to prevent data lost.

Application of PC camera function

Before the application of PC camera function, make sure to confirm that the camera driver has been installed to the computer. After driver is installed, the "start all programs" menu will be increased with one "SPCA 1528 PC Driver" menu which has the shortcut icon Amcap . After the video camera has been connected with the computer and has entered PC camera mode, click this shortcut icon (shown as the following picture) to open AMCAP window. All the relevant images corresponding to the camera lens of video camera will be displayed in AMCAP window. When AMCAP software is not opened, application of PC camera function can send video images by network.

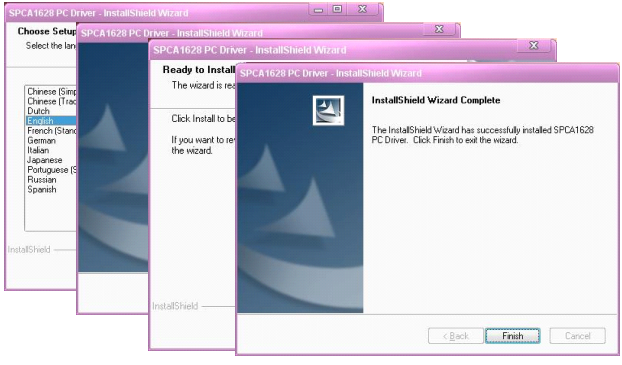
Install Software

Insert the accompanied CD into CD-ROM, and the installation guide program will run automatically, the installation guide window appearing. There are four keys on the guide window:



Install Driver

Click the **Install Driver** button to finish installation step by step according to the clew.



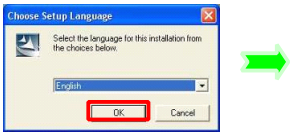
After finishing installation, please restart the computer.

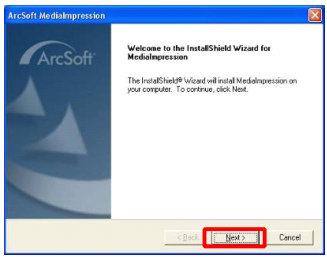
Note: Before installing the driver, do not connect the camera with the computer in order to avoid the install error.

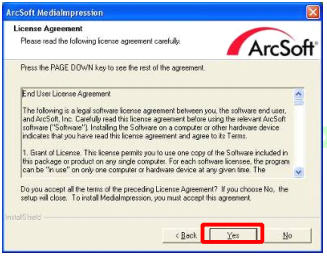
MediaImpression Installation and Use:

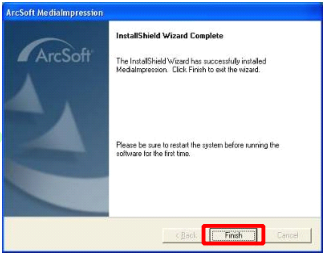
Install Mediaimpression:

Click “Install MediaImpression” button and complete the installation as per the tips.




ArcSoft MediaImpression
ArcSoft
Welcome to the InstallShield Wizard for MediaImpression
The InstallShield® Wizard will install MediaImpression on your computer. To continue, click Next.
< Back
Next >
Cancel


ArcSoft MediaImpression
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
End User License Agreement
The following is a legal software license agreement between you, the software end user, and ArcSoft, Inc. Carefully read this license agreement before using the relevant ArcSoft software ("Software"). Installing the Software on a computer or other hardware device indicates that you have read this license agreement and agree to its Terms.
1. Grant of License. This license permits you to use one copy of the Software included in this package or product on any single computer. For each software licensee, the programs can be "in use" on only one computer or hardware device at any given time. The
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install MediaImpression, you must accept this agreement.
InstallShield
< Back
Yes
No

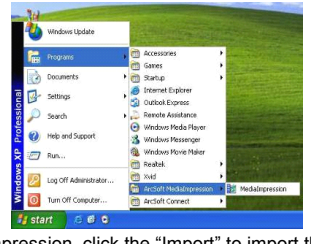

ArcSoft MediaImpression
ArcSoft
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MediaImpression. Click Finish to exit the wizard.
Please be sure to restart the system before running the software for the first time.
< Back
Finish
Cancel

After installation, please restart the computer.

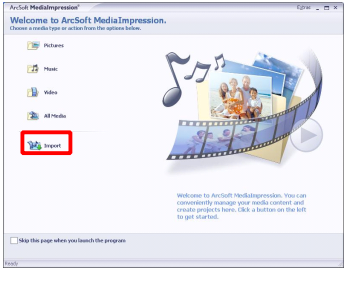
Run MediaImpression :

Double click the

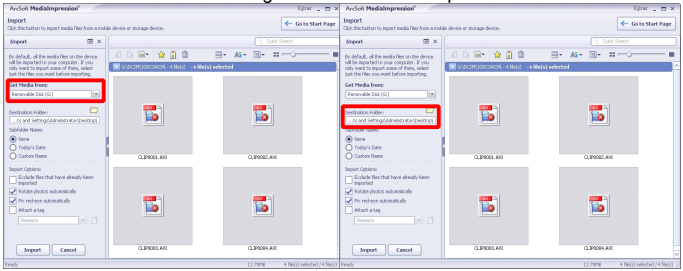
icon on the desktop or follow “Start → Programs” to open:
MediaImpression



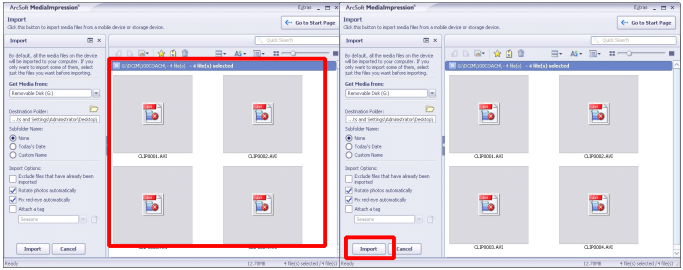
After starting MediaImpression**,** click the “Import” to import the media.


ArcSoft MediaImpression
Welcome to ArcSoft MediaImpression.
Choose a media type or action from the options below.
Pictures
Music
Video
All Media
Import
Welcome to ArcSoft MediaImpression. You can conveniently manage your media content and create projects here. Click a button on the left to get started.
Skip this page when you launch the program
Ready

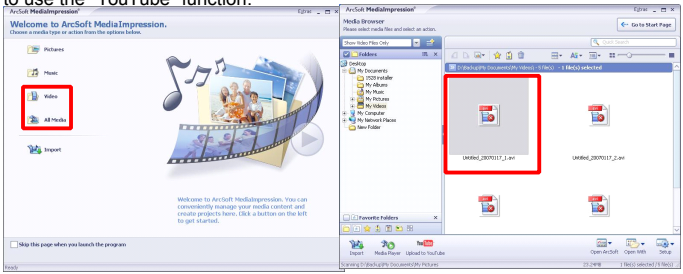
Choose the video camera storage and choose the output location.



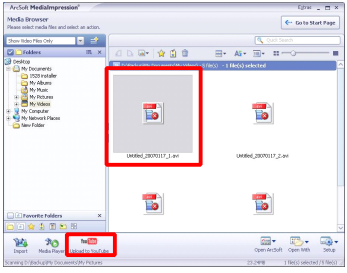
Choose require file and click the import, selected file will be stored in the output location.



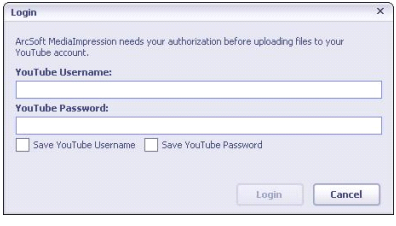
Click “Go to start page” to return the main screen, click the “Video” or “All media” to use the “YouTube” function.



Choose file and click the “upload to YouTube.



Enter you username and password to login the YouTube, execute upload.



Specification

Image inductor	5-million pixels CMOS image inductor
Photo resolution	12M (4032 x 3000), 8M (3264 x 2448), 5M (2592 x 1944), 3M (2048 x 1536)
Saver	built-in 32MB, available of an external SD card (between 4GB and 32GB)
File format	JPEG, AVI, WAV
Resolution of video	HD 1280X720，VGA 640×480
Portrait delay	2 s / 10 s
Digital zoom	8 times

White balance	Automatic / sunny day/ cloudy / fluorescent lamp / filament lamp
Exposure compensation	-2.0 ~ +2.0
USB interface	USB 2.0
TV output	NTSC / PAL
Display screen	2.7 TFT LCD
Power supply	Four AAA alkaline batteries, or one 3.7 V rechargeable lithium battery
Menu language	English / French/German/Italian/Dotch/ Spanish/Portuguese
Focus	f=6.5 mm
Diaphragm	F 3.1
Automatic close	1 minute / 3 minutes / 5 minutes
Operation system required	Windows 2000 / XP / Vista/Windows7
Size	122 mm × 63 mm × 55 mm

Note: the designed specification of the product is based on the latest information when this manual is made. No further notice will be issued and please subject to the actual video camera bought by you.

Solution of common problems

The video camera can not be started after the battery is installed	The quantity of electricity of the battery is insufficient, the battery shall be replaced.
	The package of the battery is not removed.
	The battery is installed in reversed way. Please confirm whether the installation way of the battery is correct.
Picture taking and recording can not be carried out after pressing the shutter key	No memory card is inserted, the picture taking and recording can only be carried out after memory card is inserted.
	The SD card in the video camera has writing protection. Take the SD card out and push writing protection switch to cancel the protection.
The photos are blurring	When photos are taken, the hands are shaking. Hold the video camera firmly with the hands or stabilize the body of video camera by tripod or other things. The video camera shall be kept steady when taking pictures.
The photos or videos are dark	The light in recording environment is insufficient. The recording shall be carried out in the place with sufficient light or the lighting shall be used to increase the brightness.
The video camera automatically closes	The quantity of electricity of the battery is insufficient, the battery shall be replaced.
	To save electricity, the video camera will automatically close upon the setting when on operation is not carried out beyond 1 minute (3 minutes or 5 minutes, which depends on the setting)
The files in video camera can not be deleted	The SD card in the video camera has writing protection. Take the SD card out and push writing protection switch to cancel the protection.

In accordance with the following applicable directives:

2004/108/EC Electromagnetic Compatibility

This product has been assessed against the following applicable stancards:

EN 55022:2006+A1:2007

EN 55024:1998+A1:2001+A2:2003

EN 61000-3-2:2006

EN 61000-3-3:2008

For more information please visit our Website：

http://www.mpmaneurope.com